

AMENDMENTS TO THE CLAIMS

1-22. (Canceled)

23. (Original) A wireless terminal in a wireless communication system, comprising:

a receive data processor operative to receive a first message with prefix information at a first time instant, wherein the prefix information includes a prefix used to derive an Internet Protocol (IP) address for the terminal and a lifetime for the prefix; and

a transmit data processor operative to send a second message to solicit updated prefix information after a second time instant if a first condition is met, wherein the second time instant is a first threshold time period from the first time instant, and send the second message at a third time instant if a second condition is met, wherein the third time instant is a second threshold time period from the first time instant, wherein the first and second threshold time periods are derived based on the lifetime for the prefix and are shorter than the lifetime, and wherein the second threshold time period is longer than the first threshold time period.

24. (Original) The terminal of claim 23, wherein the first condition is met if the terminal is active.

25. (Original) The terminal of claim 23, wherein the second condition is met if the terminal is configured with an always-on data session.

26. (Original) The terminal of claim 23, wherein the second condition is met if there was data activity during the second threshold time period.

27. (Original) The terminal of claim 23, wherein the second condition is met if there is likelihood of future data activity.

28. (Original) A method of maintaining Internet Protocol (IP) connectivity for a wireless terminal in a wireless communication system, comprising:

receiving a first message with prefix information at a first time instant, wherein the prefix information includes a prefix used to derive an IP address for the terminal and a lifetime for the prefix;

sending a second message to solicit updated prefix information after a second time instant if a first condition is met, wherein the second time instant is a first threshold time period from the first time instant; and

sending the second message at a third time instant if a second condition is met, wherein the third time instant is a second threshold time period from the first time instant, wherein the first and second threshold time periods are derived based on the lifetime for the prefix and are shorter than the lifetime, and wherein the second threshold time period is longer than the first threshold time period.

29. (Original) An apparatus in a wireless communication system, comprising:

means for receiving a first message with prefix information at a first time instant, wherein the prefix information includes a prefix used to derive an Internet Protocol (IP) address for a terminal and a lifetime for the prefix;

means for sending a second message to solicit updated prefix information after a second time instant if a first condition is met, wherein the second time instant is a first threshold time period from the first time instant; and

means for sending the second message at a third time instant if a second condition is met, wherein the third time instant is a second threshold time period from the first time instant, wherein the first and second threshold time periods are derived based on the lifetime for the prefix and are shorter than the lifetime, and wherein the second threshold time period is longer than the first threshold time period.

30-31. (Canceled)

32. (New) A processor readable media for storing instructions executable on a wireless device, comprising the steps of:

receiving a first message with prefix information at a first time instant, wherein the prefix information includes a prefix used to derive an Internet Protocol (IP) address for a terminal and a lifetime for the prefix; and

sending a second message to solicit updated prefix information after a second time instant if a first condition is met, wherein the second time instant is a first threshold time period from the first time instant, and send the second message at a third time instant if a second condition is met, wherein the third time instant is a second threshold time period from the first time instant, wherein the first and second threshold time periods are derived

based on the lifetime for the prefix and are shorter than the lifetime, and wherein the second threshold time period is longer than the first threshold time period.

33. (New) A method of avoiding dormant reactivation to receive Internet Protocol Version 6 (IPv6) Router Advertisements in a wireless communication system, comprising the steps of:

receiving a Router Advertisement with prefix information at a first time instant, wherein the prefix information includes a prefix used to derive an IPv6 address for a terminal and a lifetime for the prefix;

sending a Router Solicitation to solicit updated prefix information after a second time instant if the terminal is active, wherein the second time instant is a first threshold time period from the first time instant, and send the second message at a third time instant if the terminal is in a dormant mode, wherein the third time instant is a second threshold time period from the first time instant, wherein the first and second threshold time periods are derived based on the lifetime for the prefix and are shorter than the lifetime, and wherein the second threshold time period is longer than the first threshold time period.